

SABIC Innovative Plastics NORYL WCP821 PPE-TPE (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyphenylene Ether/PPO

Material Notes:

Flexible Noryl* injection molding grade. Low specific gravity with very good non-halogenated flame retardant performance. Developed for evaluation in over-molding applications such as plugs, strain relief's, and connectors. UL 94-V0 performance with good processability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCP821-PPE-TPE-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage, Flow	0.0048 cm/cm	0.0048 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0109 cm/cm	0.0109 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	31 g/10 min	31 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 210 Â°C	@Load 11.0 lb, Temperature 410 Â°F	
	33 g/10 min	33 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 250 Â°C	@Load 4.76 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	30S reading; ASTM D2240
Tensile Strength at Break	10.0 MPa	1450 psi	Type I, 50 mm/min; ASTM D638
	10.0 MPa	1450 psi	
Elongation at Break	115 %	115 %	50 mm/min; ISO 527
	125 %	125 %	
Flexural Modulus	0.110 GPa	16.0 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.130 GPa	18.9 ksi	
Tear Strength	17.0 kN/m	97.0 pli	ISO 6383

Mechanical Properties	Metric	English	Comments
Brittleness Temperature	<= -40.0 Â°C	<= -40.0 Â°F	ASTM D746
Flammability, UL94	V-0 @Thickness 5.00 mm	V-0 @Thickness 0.197 in	UL 94
Oxygen Index	25 %	25 %	ISO 4589
Glow Wire Test	800 Â°C	1470 Â°F	IEC 60695-2-13
	850 Â°C @Thickness 3.00 mm	1560 Â°F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.20e+15 ohm-cm	2.20e+15 ohm-cm	ASTM D257
Dielectric Constant	2.7 @Frequency 1.00e+6 Hz	2.7 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	25.0 kV/mm @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0040 @Frequency 1.00e+6 Hz	0.0040 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	90	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	70	ASTM E 662

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